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APPLICANT : MITSUI MINING & SMELTING CO LTD;

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TITLE : CHEMICAL SOLUTION FOR ARTIFICIAL VERDIGRIS AND TREATMENT OF
ARTIFICIAL VERDIGRIS

ABSTRACT : PURPOSE: To obtain a chemical solution for artificial verdigris for forming a verdigris coating film having adhesivity and free from discoloring by preparing the chemical solution consisting of a specified ratio of ZnCl_2 , H_3PO_4 , H_2O_2 and water and having a specific pH value.

CONSTITUTION: The chemical solution consisting of 10-200g/l ZnCl_2 50-500g/l H_3PO_4 , 20-100g/l H_2O_2 and balance water and having pH of -1 to 2 is prepared. If necessary, at least one of $\leq 50\text{g/l}$ NaOH, 50g/l Zn, $\leq 10\text{g/l}$ one or more kind of SnCl_2 , CoCl_2 , NiCl_2 and ethylenediaminetetraacetic acid is added. The artificial verdigris coating film excellent in workability and weather resistance is obtained by sticking the chemical solution to a copper alloy by $\geq 20\text{g/m}^2$ dry coating weight and aging it in the atmosphere of 20-80°C and $\geq 60\%$ humidity.

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